

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant: BOND Examiner: UNKNOWN
Serial No.: 10/759,731 Group Art Unit: 1632
Filed: JANUARY 16, 2004 Docket: 11669.136USU1
Confirmation No.: 6901 Customer No.: 23552
Title: SYNTHETIC ANTIBODY PHAGE LIBRARIES



CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Mail Stop AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 24, 2004.

By:

Name: Sheryl A. Boerboom

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

23552

PATENT TRADEMARK OFFICE

Sir:

We are transmitting herewith the attached:

- ☒ Transmittal Sheet in duplicate containing Certificate of Mailing
- ☒ Information Disclosure Statement, Form 1449, 97 References
- ☒ Return postcard

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers or any future reply, if appropriate. Please charge any additional fees or credit overpayment to Deposit Account No. 13-2725. A duplicate of this sheet is enclosed.

MERCHANT & GOULD P.C.
P.O. Box 2903, Minneapolis, MN 55402-0903
612.332.5300

By:

Name: Katherine M. Kowalchuk

Reg. No.: 36,848

KKowalchuk:sab



S/N 10/759,731

PATENT

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INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(b))

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted before the mailing date of a first Office Action on-the-merits. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

A copy of any foreign patent document or "Other Document" listed on the Form 1449 is enclosed, in accordance with 37 C.F.R. §1.98(a)(2). Because this application was filed after June 30, 2003, copies of the U.S. Patents and U.S. patent publications listed on the enclosed Form 1449 are not provided. Applicants also advise the Examiner of copending U.S. Application Serial No. 09/738,937.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a

reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

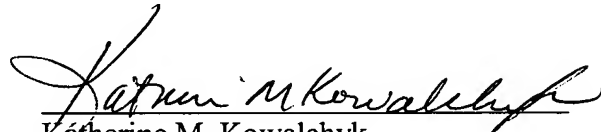
Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Please charge any additional fees or credit any overpayment to Deposit Account No. 13-2725.

Respectfully submitted,

MERCHANT & GOULD P.C.
P. O. Box 2903
Minneapolis, Minnesota 55402-0903
612.332.5300

Date Sept. 24, 2004



Katherine M. Kowalchuk

Reg. No. 36,848

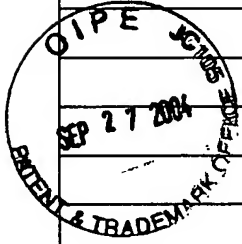
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	Applicant: BOND	
	Filing Date: 01/16/2004	Group Art Unit: 1632

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,223,409	06/29/1993	Ladner et al.			
	5,403,484	04/04/1995	Ladner et al.			
	5,427,908	06/27/1995	Dower et al.			
	5,432,018	07/11/1995	Dower et al.			
	5,498,530	03/12/1996	Schatz et al.			
	5,534,615	07/09/1996	Baker et al.			
	5,580,717	12/03/1996	Dower et al.			
	5,580,723	12/03/1996	Wells et al.			
	5,591,828	01/17/1997	Bosslet et al.			
	5,658,727	08/18/1997	Barbas et al.			
	5,667,780	09/16/1997	Ho et al.			
	5,667,988	09/16/1997	Barbas et al.			
	5,702,892	12/30/1997	Mulligan-Kehoe			
	5,723,286	03/03/1998	Dower et al.			
	5,723,323	03/03/1998	Kauffman et al.			
	5,733,743	03/31/1998	Johnson et al.			
	5,750,373	05/12/1998	Garrard et al.			
	5,759,817	06/02/1998	Barbas			
	5,763,192	06/09/1998	Kauffman et al.			
	5,770,434	06/23/1998	Huse			
	5,821,337	10/13/1998	Carter et al.			
	5,834,250	11/10/1998	Wells et al.			
	5,837,242	11/17/1998	Holliger et al.			
	5,969,108	10/19/1999	McCafferty et al.			
	6,054,297	04/25/2000	Carter et al.			
	6,172,197	01/09/2001	McCafferty et al.			



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FOREIGN PATENT DOCUMENTS							
		DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	EP 266,032	04/05/1988	Europe				
	EP 368,684	05/16/1990	Europe				
	WO 92/03461	03/05/1992	PCT				
	WO 93/11161	06/10/1993	PCT				
	WO 97/35196	09/25/1997	PCT				
	WO 98/15833	04/16/1998	PCT				
	WO 99/46284	09/16/1999	PCT				
	WO 01/44463	06/21/2001	PCT				
	WO 03/102157	06/03/2003	PCT				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Arbabi Ghahroudi, M. et al., "Selection and identification of single domain antibody fragments from camel heavy-chain antibodies", <i>FEBS Letter</i> , 414:521-526 (1997)						
	Arndt, K. et al., "Factors Influencing the Dimer to Monomer Transition of an Antibody Single-Chain Fv Fragment", <i>Biochemistry</i> , 37:12918-12926 (1998)						
	Barbas, C. et al., "Selection and evolution of high-affinity human anti-viral antibodies", <i>Trends Biotech</i> , 14:230-234 (1996)						
	Barbas, C. et al., "In Vitro evolution of a neutralizing human antibody to human immunodeficiency virus type 1 to enhance affinity and broaden strain cross-reactivity", <i>Proc. Natl. Acad. Sci. USA</i> , 91:3809-3813 (1994)						
	Bass, S. et al., "Hormone Phage: An Enrichment Method for Variant Proteins with Altered Binding Properties", <i>Proteins</i> , 8:309-314 (1990)						
	Bond, C. et al., "Contributions of CDR3 to V _H H Domain Stability and the Design of Monobody Scaffolds for Naïve Antibody Libraries", <i>J. Mol. Biol.</i> , 332:649-655 (2003)						
	Braunagel, M. et al., "Construction of a semisynthetic antibody library using trinucleotide oligos", <i>Nucleic Acids Research</i> , 25(22):4690-4691 (1997)						
	Carter et al., "Humanization of an anti-p185 ^{HER2} antibody for human cancer therapy", <i>Proc. Natl. Acad. Sci. USA</i> , 89:4285-4289 (1992)						

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	Chen, Y. et al., "Selection and Analysis of an Optimized Anti-VEGF Antibody: Crystal Structure of an Affinity-matured Fab in Complex with Antigen", <i>J. Mol. Biol.</i> , 293:865-881 (1999)
	Clackson, T. et al., "Making antibody fragments using phage display libraries", <i>Nature</i> , 352:624-628 (1991)
	Connolly, J., "Analytical Molecular Surface Calculation", <i>J. Appl. Cryst.</i> , 16:548-558 (1983)
	Cunningham, B. et al., "High-Resolution Epitope Mapping of hGH-Receptor Interactions by Alanine-Scanning Mutagenesis", <i>Science</i> , 244(4908):1081-1085 (1989)
	Davis, B. et al., <i>Microbiology Including Immunology and Molecular Genetics</i> , pp. 237, 245-47, 374 (1980)
	de Kruif, J. et al., "Selection and application of human single chain Fv antibody fragments from a semi-synthetic phage antibody display library with designed CDR3 regions", <i>J. Mol. Biol.</i> , 248:97-105 (1995)
	de Wildt, R. et al., "Antibody arrays for high-throughput screening of antibody-antigen interactions", <i>Nature Biotechnology</i> , 18:989-994 (2000)
	Decanniere, K. et al., "A single-domain antibody fragment in complex with RNase A: non-canonical loop structures and nanomolar affinity using two CDR loops", <i>Structure</i> , 7:361-370 (1999)
	Decanniere, K. et al., "Canonical antigen-binding loop structures in immunoglobulins: More structures, more canonical classes?", <i>J. Mol. Bio.</i> , 300:83-91 (2000)
	Decanniere, K. et al., "Degenerate interfaces in antigen-antibody complexes", <i>J. Mol. Bio.</i> , 313:473-478 (2001)
	Deng, S. et al., "Selection of Antibody Single-chain Variable Fragments with Improved Carbohydrate Binding by Phage Display", <i>J. Biol. Chem.</i> , 269:9533-9538 (1994)
	Desmyter, A. et al., "Antigen specificity and high affinity binding provided by one single loop of a camel single-domain antibody", <i>J. Biol. Chem.</i> , 276:26285-26290 (2001)
	Desmyter, A. et al., "Crystal structure of a camel single-domain VH antibody fragment in complex with lysozyme", <i>Nat. Struct. Biol.</i> , 3:803-811 (1996)
	Desmyter, A. et al., "Three camelid VHH domains in complex with porcine pancreatic α -amylase: Inhibition and versatility of binding topology" <i>The Journal of Biological Chemistry</i> , 277:23645-23650 (2002)
	Distenfanso, M. et al., "Quantifying β -Sheet Stability by Phage Display", <i>J. Mol. Biol.</i> , 322:179-188 (2002)
	Dubaquié, Y. et al., "Total Alanine-Scanning Mutagenesis of Insulin-like Growth Factor I (IGF-I) Identifies Differential Binding Epitopes for IGFBP-1 and IGFBP-3", <i>Biochemistry</i> , 38:6386-6396 (1999)
	Dumoulin, M. et al., "A camelid antibody fragment inhibits the formation of amyloid fibrils by human lysozyme", <i>Nature</i> , 424:783-788 (2003)

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	Dumoulin, M. et al., "Single-domain antibody fragments with high conformational stability", <i>Nat. Struct. Biol.</i> , 11:500-515 (2002)
	Eigenbrot et al., "X-ray Structures of the Antigen-binding Domains from Three Variants of Humanized anti-p185 ^{HER2} Antibody 4D5 and Comparison with Molecular Modeling," <i>J. Mol. Biol.</i> , 229:969-995 (1993)
	Els Conrath, K. et al., "Camel single-domain antibodies as modular building units in bispecific and bivalent antibody constructs", <i>J. Biol. Chem.</i> , 276:7346-7350 (2001)
	Engels et al., "Gene Synthesis", <i>Agnew. Chem. Int. Ed. Engl.</i> , 28:716-734 (1989)
	Ewert, S. et al., "Biophysical properties of camelid V _{HH} domains compared to those of human V _H 3 domains", <i>Biochemistry</i> , 41:3628-3636 (2002)
	Ewert, S. et al., "Biophysical properties of human antibody variable domains", <i>J. Mol. Bio.</i> , 325:531-553 (2003)
	Ferrat, G. et al., "A peptide mimic of an antigenic loop of α -human chorionic gonadotropin hormone: solution structure and interaction with a llama V _{HH} domain", <i>Biochem. J.</i> , 366:415-422 (2002)
	Forsberg, G. et al., "Identification of Framework Residues in a Secreted Recombinant Antibody Fragment that Control Production Level and Localization in <i>Escherichia coli</i> ", <i>J. Biol. Chem.</i> , 272:12430-12436 (1997)
	Froehler, B. et al., "Synthesis of DNA via deoxynucleoside H-phosphonate intermediates", <i>Nucl. Acids Res.</i> , 14(13):5399-5407 (1986)
	Fuh, G. et al., "Requirements for Binding and Signaling of the Kinase Domain Receptor for Vascular Endothelial Growth Factor", <i>J. Biol. Chem.</i> , 273:11197-11204 (1998)
	Garrard et al., "Selection of an anti-IGF-1 Fab from a Fab phage library created by mutagenesis of multiple CDR loops", <i>Gene</i> , 128:103-109 (1993)
	Gregoret, L. et al., "Additivity of mutant effects assessed by binomial mutagenesis", <i>Proc. Natl. Acad. Sci. USA</i> , 90:4246-4250 (1993)
	Griffiths et al., "Isolation of high affinity human antibodies directly from large synthetic repertoires", <i>The EMBO Journal</i> , 13(14):3245-3260 (1994)
	Hamers-Casterman, C. et al., "Naturally occurring antibodies devoid of light chains", <i>Nature</i> , 363:446-448 (1993)
	Harmsen, M. et al., "Llama heavy-chain V regions consist of at least four distinct subfamilies revealing novel sequence features", <i>Molecular Immunology</i> , 37:579-590 (2000)
	Hawkins, R. et al., "Selection of Phage Antibodies by Binding Affinity: Mimicking Affinity Maturation", <i>J. Mol. Biol.</i> , 226:889-896 (1992)

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	Hollinger, P. et al., "Diabodies: Small bivalent and bispecific antibody fragments", <i>Proc. Natl. Acad. Sci. USA</i> , 90:6444-6448 (1993)
	Honegger, A. et al., "Yet Another Numbering Scheme for Immunoglobulin Variable Domains: An Automatic Modeling and Analysis Tool", <i>J. Mol. Biol.</i> , 309:657-670 (2001)
	Hoogenboom, H., "Overview of antibody phage-display technology and its applications", <i>Methods Mol. Biol.</i> , 178: 1-37 (2002)
	Hoogenboom, "Antibody phage display technology and its applications", <i>Immunotechnology</i> , 4:1-20 (1988)
	Hoogenboom, H., "Designing and optimizing library selection strategies for generating high-affinity antibodies", <i>Trends in Biotechnology</i> , 15:62-70
	Jackson, J. et al., "In Vitro Antibody Mutation: Improvement of a High Affinity, Neutralizing Antibody Against IL-1 β ", <i>The Journal of Immunology</i> , 154:3310-3319 (1995)
	Jung, S. et al., "Selection for Improved Protein Stability by Phage Display", <i>J. Mol. Biol.</i> , 294:163-180 (1999)
	Knappik, A. et al., "Fully Synthetic Human Combinatorial Antibody Libraries (HuCAL) Based on Modular Consensus Frameworks and CDRs Randomized with Trinucleotides", <i>J. Mol. Biol.</i> , 296:57-86 (2000)
	Kostelny, S. et al., "Formation of a Bispecific Antibody by the Use of Leucine Zippers", <i>The Journal of Immunology</i> , 148(5):1547-1553 (1992)
	Kunkel, T. et al., "Rapid and Efficient Site-Specific Mutagenesis without Phenotypic Selection", <i>Methods in Enzymology</i> , 154:367-382 (1987)
	Ladner, R. et al., "Novel frameworks as a source of high-affinity ligands", <i>Curr. Opin. Biotechnol.</i> , 12:406-410 (2001)
	Lee et al., "The Interpretation of Protein Structures: Estimation of Static Accessibility", <i>J. Mol. Biol.</i> , 55:379-400 (1971)
	Lowman, H. et al., "Monovalent Phage Display: A Method for Selecting Variant Proteins from Random Libraries", <i>Methods: A Companion to Methods in Enzymology</i> , 3:205-216 (1991)
	Lowman, H. et al., "Selecting High-Affinity Binding Proteins by Monovalent Phage Display", <i>Biochemistry</i> , 30:10832-10838 (1991)
	Morrison, K. et al., "Combinatorial alanine-scanning", <i>Current Opinion in Chemical Biology</i> , 5:302-307 (2001)
	Muyldermans, S., "Single domain camel antibodies: current status", <i>Journal of Biotechnology</i> , 74(4):277-302 (2001)
	Muyldermans, S. et al., "Sequence and structure of VH domain from naturally occurring camel heavy chain immunoglobulins lacking light chains", <i>Protein Eng.</i> , 7:1129-35 (1994)

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	Nieba, L. et al., "Disrupting the hydrophobic patches at the antibody variable/constant domain interface: improved <i>in vivo</i> folding and physical characterization of an engineered scFv fragment", <i>Protein Engineering</i> , 10(4):435-444 (1997)
	O'Neil, K. et al., "Phage display: protein engineering by directed evolution", <i>Current Opinion in Structural Biology</i> , 5:443-449 (1995)
	Pacios, L. et al., "ARVOMOL/CONTOUR: molecular surface areas and volumes on personal computers," <i>Computers Chem.</i> , 18(4):377-386 (1994)
	Pacios, L., "Variations of Surface Areas and Volumes in Distinct Molecular Surfaces of Biomolecules", <i>Journal of Molecular Modeling</i> , 1: 46-53 (1995).
	Pack, P. et al., "Miniantibodies: Use of Amphipathic Helices to Produce Functional, Flexibly Linked Dimeric Fv Fragments with High Avidity in <i>Escherichia coli</i> ", <i>Biochemistry</i> , 31(6):1579-1584 (1992)
	Plückthun, A., "Antibodies from <i>Escherichia coli</i> ", <i>The Pharmacology of Monoclonal Antibodies</i> , Vol. 113, Rosenberg and Moore eds. Springer-Verlag, New York, pp. 269-315 (1994)
	Rader, C. et al., "Phage display of combinatorial antibody libraries", <i>Curr. Opin. Biotechnol.</i> , 8:503-508 (1997)
	Renislo, J. et al., "Solution Structure and Backbone Dynamics of an Antigen-Free Heavy Chain Variable Domain (VHH) from <i>Llama</i> ", <i>Proteins</i> , 47(4):546-555 (2002)
	Sheriff, S. et al., "Redefining the minimal antigen-binding fragment", <i>Nat. Struct. Biol.</i> , 3:733-736 (1996)
	Sidhu, S. et al., "High Copy Display of Large Proteins on Phage for Functional Selections", <i>J. Mol. Biol.</i> , 296:487-495 (2000)
	Sidhu, S. et al., "Phage Display for Selection of Novel Binding Peptides", <i>Methods in Enzymology</i> , 328:333-363 (2000)
	Sidhu, S., "Phage Display in Pharmaceutical Biotechnology", <i>Curr. Opin. Biotechnol.</i> , 11:610-616 (2000)
	Skerra, A. et al., "Assembly of a Functional Immunoglobulin Fv Fragment in <i>Escherichia coli</i> ", <i>Science</i> , 240:1038-1041 (1988)
	Skerra, A., "Engineered protein scaffolds for molecular recognition", <i>Journal of Molecular Recognition</i> , 13:167-187 (2000)
	Smith, G. et al., "Filamentous Fusion Phage: Novel Expression Vectors that Display Cloned Antigens on the Virion Surface", <i>Science</i> , 228:1315-1317 (1985)
	Spinelli, S. et al., "The crystal structure of a llama heavy chain variable domain", <i>Nature Structural Biology</i> , 3(9):752-757 (1996)

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	Tanha, J. et al., "Selection by phage display of llama conventional V(H) fragments with heavy chain antibody V(H)H properties", <i>J. Imm. Meth.</i> , 263:97-109 (2002)
	Ulrich, H. et al., "Expression studies of catalytic antibodies", <i>Proc. Nat'l Acad. Sci. USA.</i> , 92:11907-11911 (1995)
	Vajdos, F. et al., "Comprehensive functional maps of the antigen-binding site of an anti-ErbB2 antibody obtained with shotgun scanning mutagenesis", <i>J. Mol. Bio.</i> , 320:415-428 (2002)
	van der Linden, R. et al., "Induction of immune responses and molecular cloning of the heavy chain antibody repertoire of Lama glama", <i>J. Imm. Meth.</i> , 240:185-195 (2000)
	Vaughan et al., "Human Antibodies with Sub-nanomolar Affinities Isolated from a Large Non-immunized Phage Display Library", <i>Nat. Biotech.</i> , 14:309-314 (1996)
	Vranken, W. et al., "Solution structure of a llama single-domain antibody with hydrophobic residues typical of the VH/VL interface", <i>Biochemistry</i> , 41:8570-8579 (2002)
	Weiss, G. et al., "Rapid mapping of protein functional epitopes by combinatorial alanine scanning", <i>Proc. Natl. Acad. Sci. USA</i> , 97(16):8950-8954 (2000)
	Wells et al., "Rapid evolution of peptide and protein binding properties <i>in vitro</i> ", <i>Curr. Opin. Struct. Biol.</i> , 3:355-362 (1992)
	Wiesmann, C. et al., "Crystal Structure at 1.7 Å Resolution of VEGF in Complex with Domain 2 of the Flt-1 Receptor", <i>Cell</i> , 91:695-704 (1997)
	Wu, T. et al., "Length distribution of CDRH3 in antibodies", <i>Proteins</i> , 16, 1-7 (1993)
	Yelton, D. et al., "Affinity Maturation of the BR96 Anti-Carcinoma Antibody by Codon-Based Mutagenesis", <i>J. Immunol.</i> , 155:1994-2004 (1995)
	Zapata, G. et al., "Engineering linear F(ab') ₂ fragments for efficient production in <i>Escherichia coli</i> and enhanced antiproliferative activity", <i>Protein Eng.</i> , 8(10):1057-1062 (1995)
	Zhu, Z. et al., "Remodeling domain interfaces to enhance heterodimer formation", <i>Protein Science</i> , 6:781-788 (1997)

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